SWP Water Quality Summary

November 20, 2003

Total Dissolved Solids: TDS began increasing at Banks Pumping Plant and the State Water Project (SWP) in the middle of September as a result of reduced Delta inflow. These are typical fall levels. TDS remains below the article 19 monthly average objective. Concentrations at Barker slough remained low, below the article 19 Ten year average objectives.

Bromide: Similarly, bromide concentrations at Banks Pumping Plant and the SWP increased starting in the middle of September, with peaks of 0.3 mg/l at Banks Pumping Plant and Vallecitos, on October 15 and 20, respectively. Concentration at Barker Slough remained low, below the CALFED Objective.

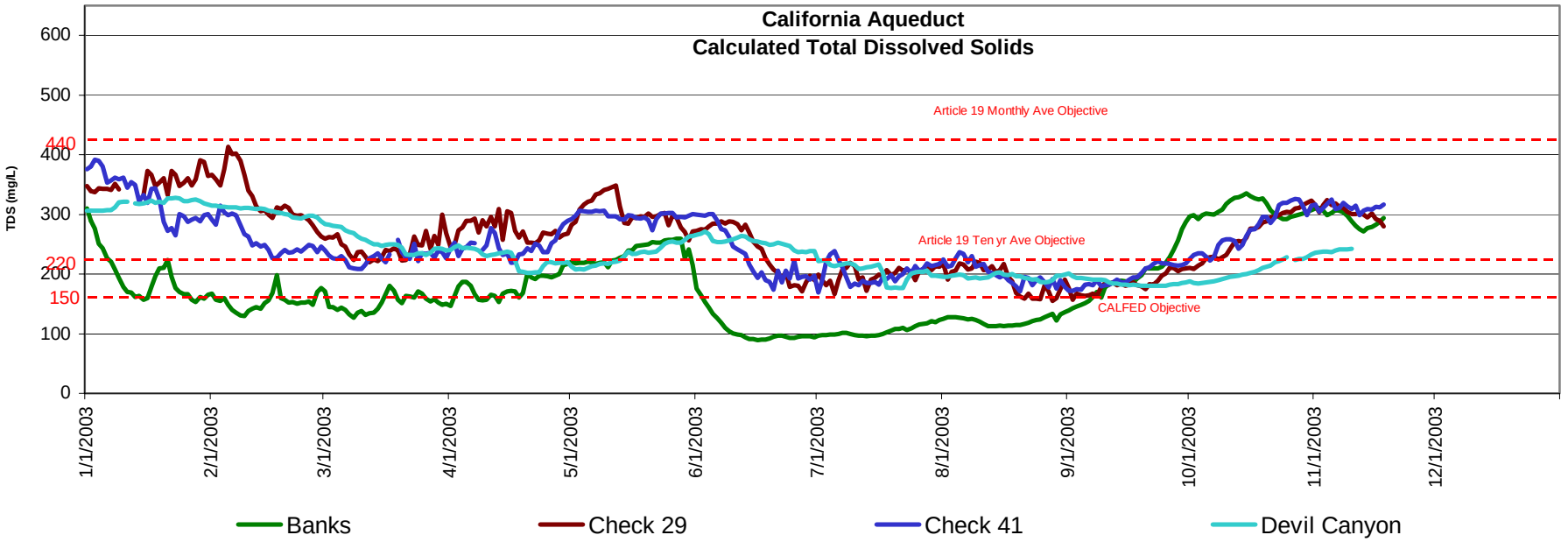
Turbidity: Turbidity at all locations remained the same except at check 41 and Banks Pumping Plants where the peaks of 10.3 and 13.2 (NTU) were recorded on November 12 and October 25. North and South Bay Aqueduct did not show significant changes when compared to last month.

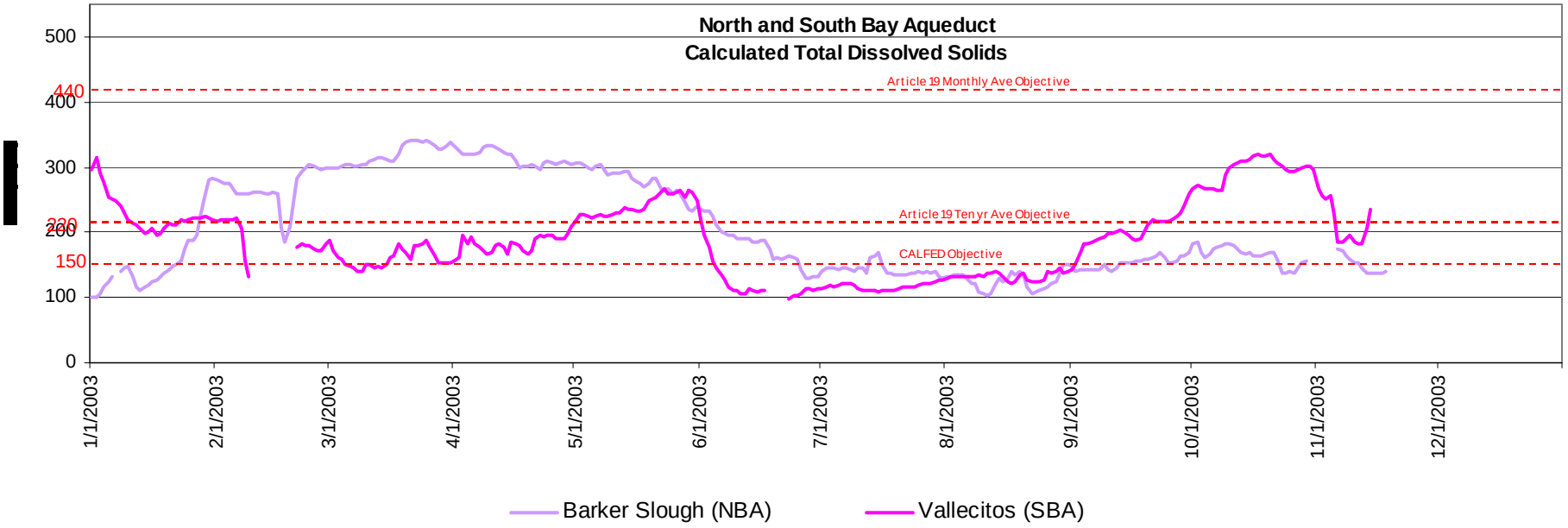
Dissolved Organic Carbon: In the California Aqueduct at Banks Pumping Plant, dissolved organic carbon peaked at 2.9 mg/l on October 17. However, this peak was below the CALFED TOC Objective. Also, DOC at Check 13 and 41 were below CALFED TOC Objectives. This condition will change when heavy winter runoff commences.

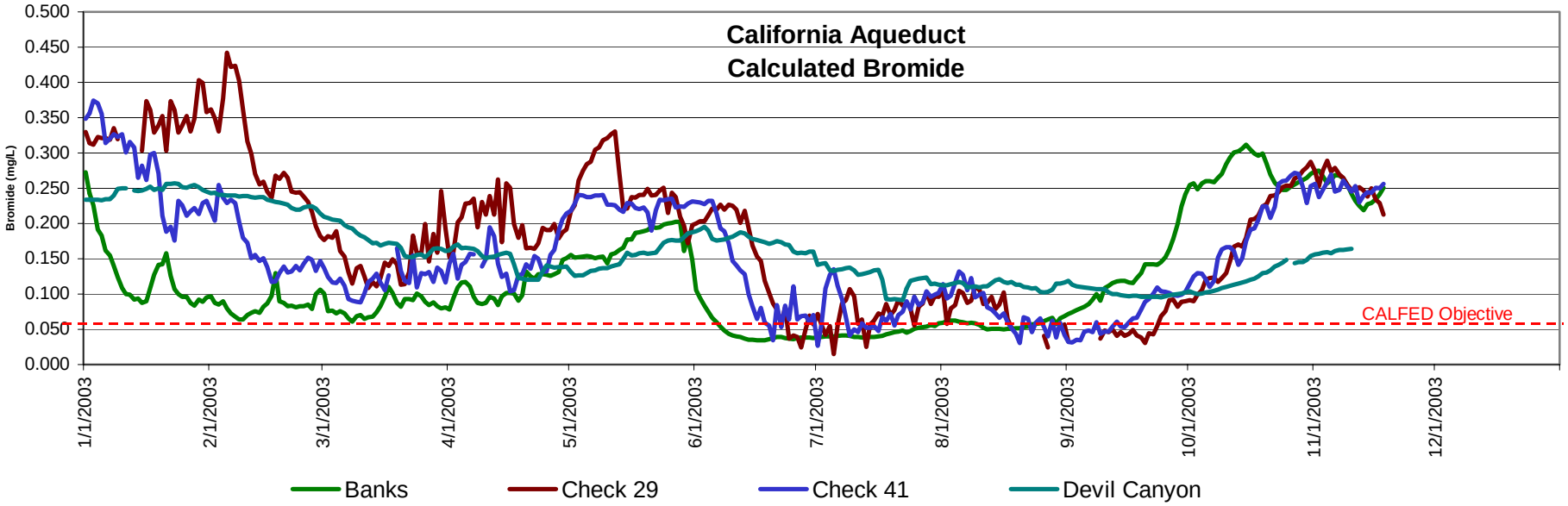
Taste and Odor Compounds: The Taste and Odor Compound MIB, remained high in Lake Del Valle, but was low most of other locations. Lake Perris was treated with copper sulfate on 11/13/03 to control the geosmin producing bluegreen algae, Anabaena. MIB was also elevated from production by benthic algae in the reservoir.

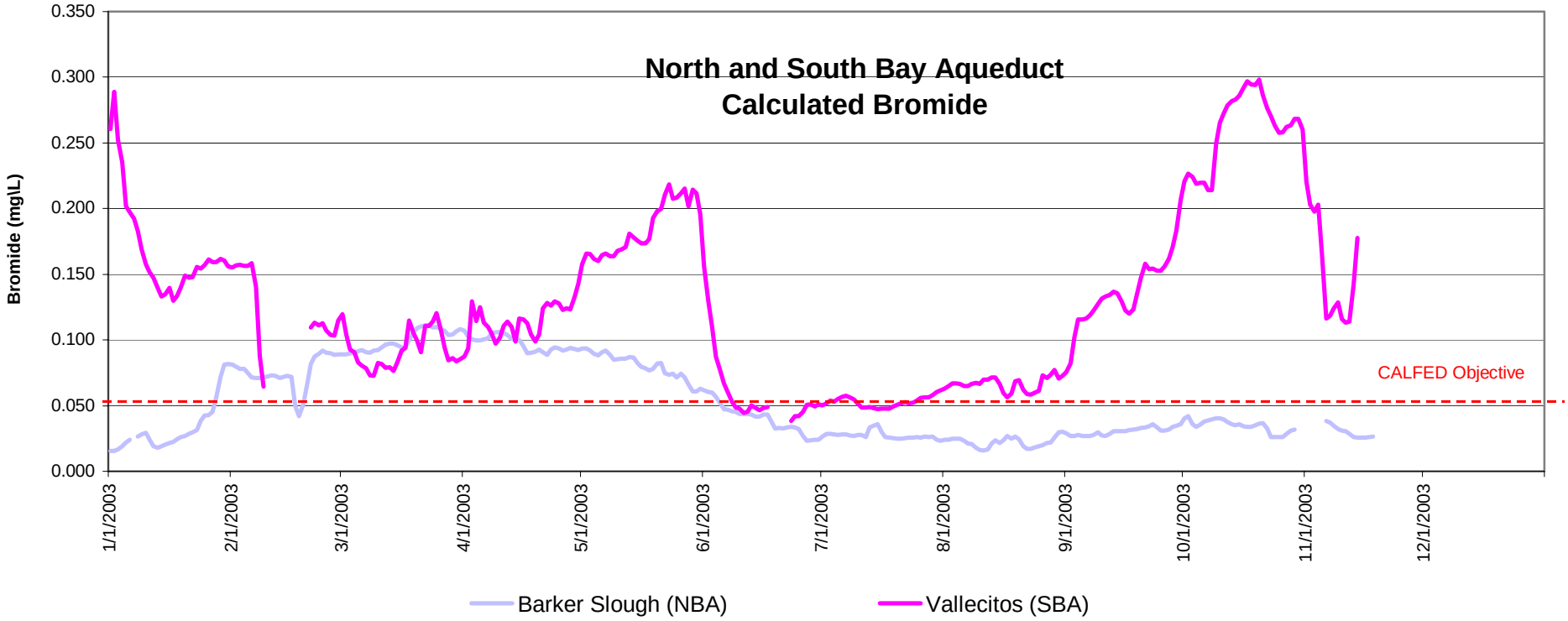
Ground Water Pump-in: No ground water pump-in during May through mid-November.

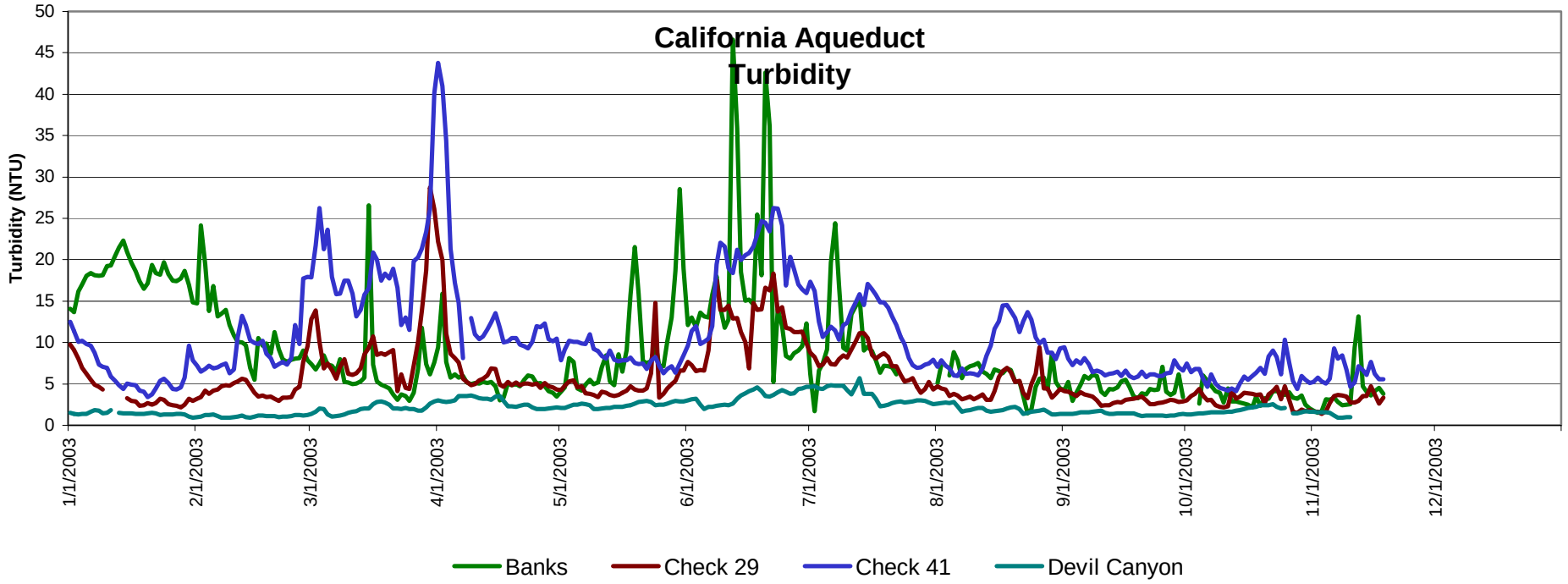
Lake Silverwood: The California Department of Forestry estimates that 40 percent (20, 000 acres) of the watershed burned in the recent fires. Soil protection work is planned on about 600 acres in the West Fork Mojave River watershed that is suitable for "helimulching" with rice straw. The remainder of the watershed is too steep to protect.

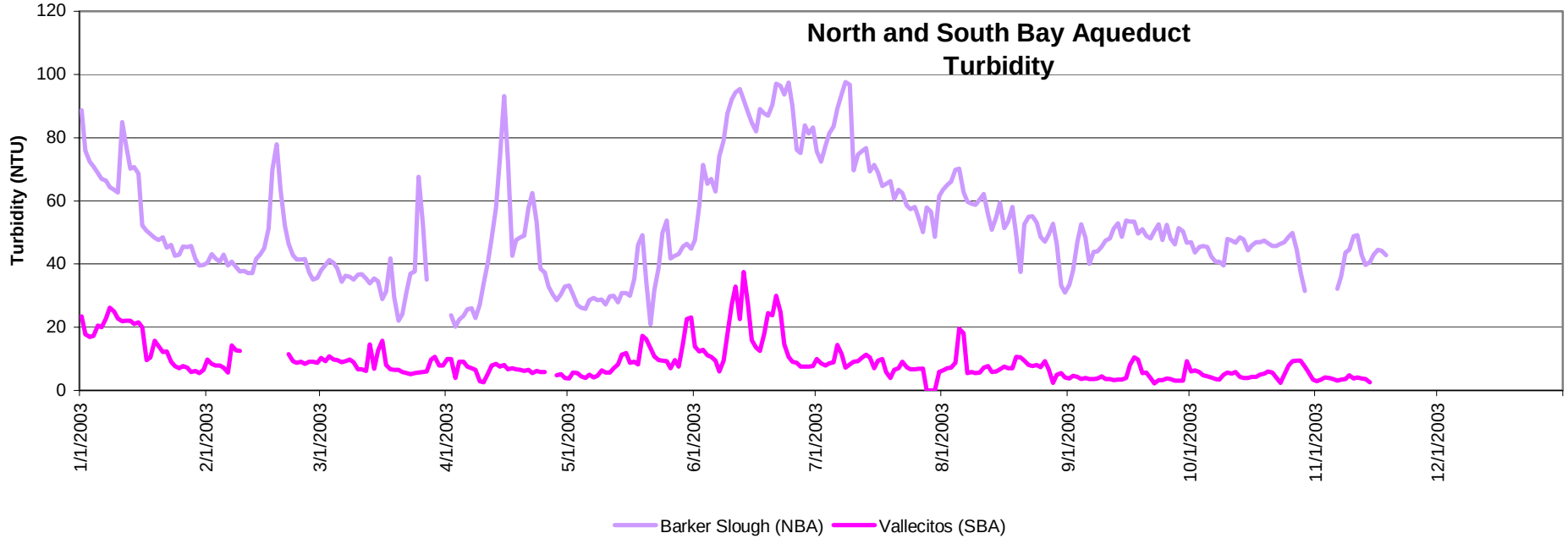

California Aqueduct
Calculated Total Dissolved Solids
TDS (mg/L)
600
500
400
300
200
100
0
440
220
150
Article 19 Monthly Ave Objective
Article 19 Ten yr Ave Objective
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon

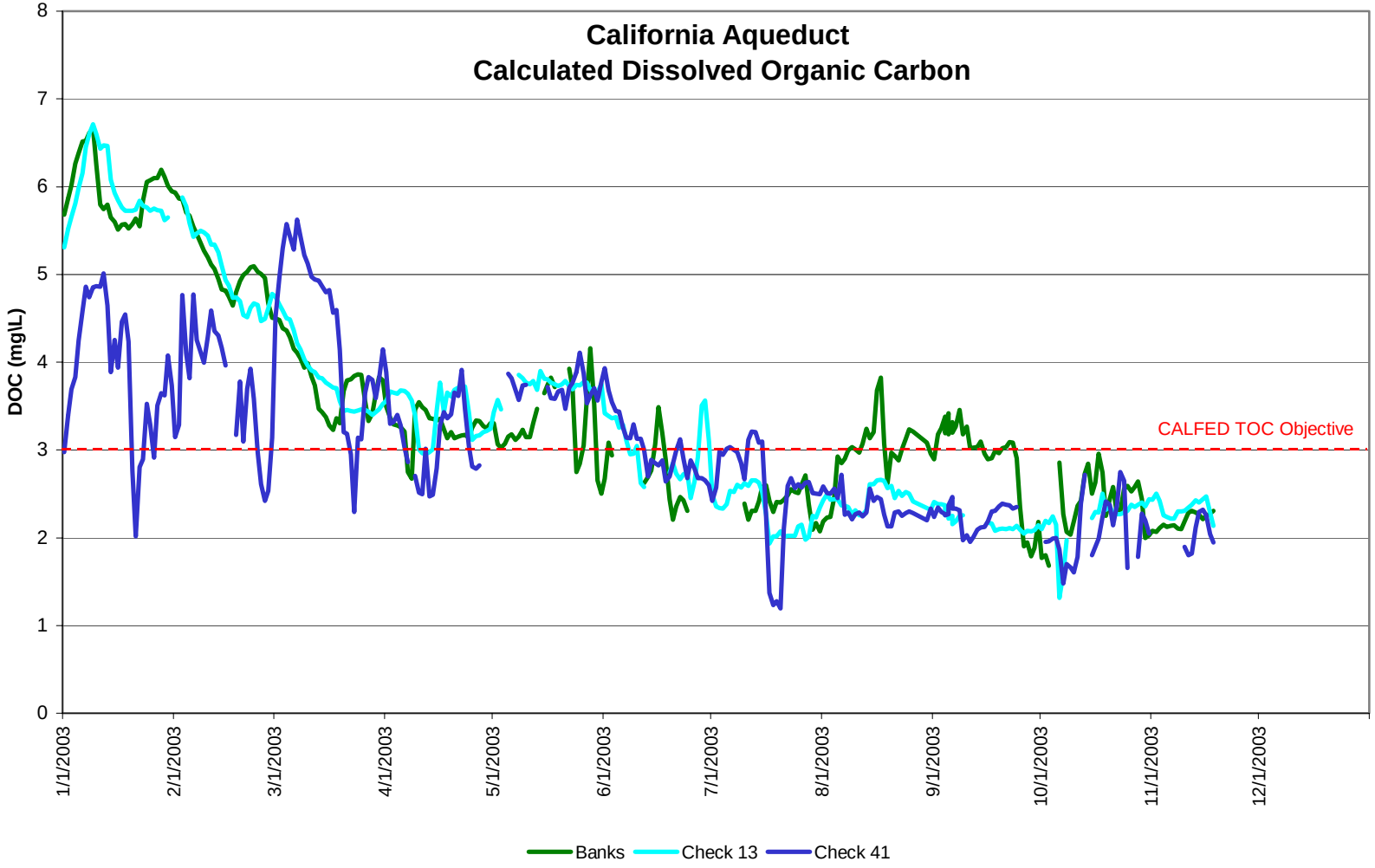

North and South Bay Aqueduct
Calculated Total Dissolved Solids
500
400
300
200
100
0
440
220
150
Article 19 Monthly Ave Objective
Article 19 Ten yr Ave Objective
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)


California Aqueduct
Calculated Bromide
Bromide (mg/L)
0.500
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon


North and South Bay Aqueduct
Calculated Bromide
Bromide (mg\L)
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
CALFED Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)


California Aqueduct
Turbidity
Turbidity (NTU)
50
45
40
35
30
25
20
15
10
5
0
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 29
Check 41
Devil Canyon


North and South Bay Aqueduct
Turbidity
Turbidity (NTU)
120
100
80
60
40
20
0
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Barker Slough (NBA)
Vallecitos (SBA)


California Aqueduct
Calculated Dissolved Organic Carbon
DOC (mg\L)
8
7
6
5
4
3
2
1
0
CALFED TOC Objective
1/1/2003
2/1/2003
3/1/2003
4/1/2003
5/1/2003
6/1/2003
7/1/2003
8/1/2003
9/1/2003
10/1/2003
11/1/2003
12/1/2003
Banks
Check 13
Check 41